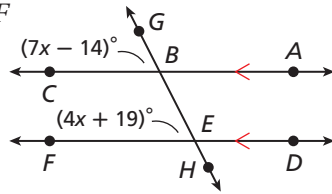
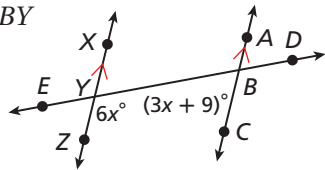


Geometry Date_____ 3.2 Notes **Angles formed by Parallel Lines and** **Transversals (pp 155-157)**

2. $m\angle BEF$



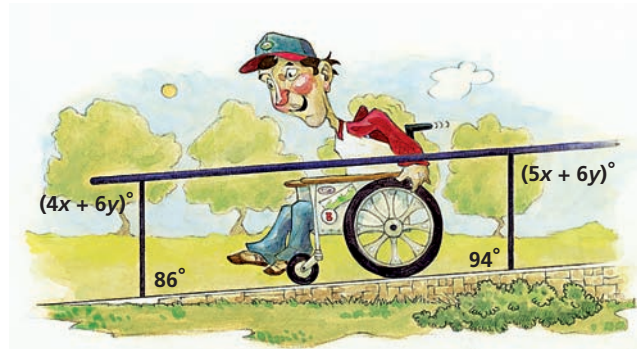
4. $m\angle CBY$



Geometry Date_____ 3.2 Notes

Angles formed by Parallel Lines and Transversals (pp 155-157)

5. **Safety** The railing of a wheelchair ramp is parallel to the ramp. Find x and y in the diagram.



6. Eratosthenes was a Greek scholar. Over 2000 years ago, he estimated Earth's circumference by using the fact that the Sun's rays are parallel. Eratosthenes chose a day when the Sun shone exactly down a vertical well in Syene at noon. On that day, he measured the angle the Sun's rays made with a vertical stick in Alexandria at noon. He discovered that $m\angle 2 = 7.2^\circ$. At the time, the distance from Syene to Alexandria was believed to be 575 miles. What is the approximate circumference of the Earth according to Eratosthenes calculations?